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HICKMAN PALERMO TRUONG & BECKER, LLP			ZIA, SYED			
SAN JOSE,	OW STREET CA 95125			ART UNIT PAPER NUMBER		
,				2131	11	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	9
Office Action Summary		09/435,015	JIAO, FAN	-
		Examiner	Art Unit	
		Syed Zia	2131	
- Th Period for Re	e MAILING DATE of this communication app eply	ears on the cover sheet with the e	orrespondence add:	Iress
THE MAIL - Extensions after SIX (6 - If the period - If NO period - Failure to many reply many	ENED STATUTORY PERIOD FOR REPLY LING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1.13 (a) MONTHS from the mailing date of this communication. It for reply specified above is less than thirty (30) days, a reply d for reply is specified above, the maximum statutory period we ply within the set or extended period for reply will, by statute, eceived by the Office later than three months after the mailing ent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tired within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this con ED (35 U.S.C. § 133).	
Status				
2a)⊠ This 3)∐ Sind	sponsive to communication(s) filed on <u>22 Mars</u> action is FINAL . 2b) This ce this application is in condition for allowarded in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro		merits is
Disposition o	of Claims			
4a) (5)	m(s) <u>1-26</u> is/are pending in the application. Of the above claim(s) is/are withdrav m(s) is/are allowed. m(s) <u>1-26</u> is/are rejected. m(s) is/are objected to. m(s) are subject to restriction and/or	vn from consideration.		
Application F	'apers			
10)∏ The Appl Rep	specification is objected to by the Examiner drawing(s) filed on is/are: a) accellicant may not request that any objection to the clacement drawing sheet(s) including the correctionath or declaration is objected to by the Example 1.	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ijected to. See 37 CFF	, ,
Priority unde	r 35 U.S.C. § 119			
a)	nowledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the prior application from the International Bureau he attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National S	Stage
Attachment(s) 1) Notice of R	deferences Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)	
2) Notice of D 3) Information	oraftsperson's Patent Drawing Review (PTO-948) I Disclosure Statement(s) (PTO-1449 or PTO/SB/08) I)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	152)

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DETAILED ACTION

Response to Amendment

- 1. This office action is in response to request for reconsideration filed on March 22, 2004 (Paper No. 10). Declaration filed on March 22, 2004 (Paper No. 9) have been entered and made of record. Therefore, currently pending Claims are 1-26.
- 2. The declaration filed on March 22, 2004 (Paper No. 9) under 37 CFR 1.131 has been considered but is ineffective to overcome the Harrison et al., (U. S. Patent No. 6,330,560) reference.
- 3. The evidence submitted is insufficient to establish a conception of the invention prior to the effective date (September 10, 1999) of the Harrison et al. reference. While conception is the mental part of the inventive act, it must be capable of proof, such as by demonstrative evidence or by a complete disclosure to another. The requisite means themselves and their interaction must also be comprehended chronologically. Applicant clearly has failed to demonstrate the date(s) of conception life cycle by leaving the date column blank from the version control history of different phases of evolving invention document. Some examples are, (1) Patent Idea Detail Document No. 41685. (2) CNS/AD Client document: un-numbered second page after title page, and Page 9.

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(3) IOS CNS Event... Specification: Page ii. (4) IOS CNS/AD Client document: Page 14, and Page.15.

Therefore, applicants clearly have failed to explicitly identify specific claim

limitations, which would define a patentable distinction over prior arts. The examiner asserts that cited prior arts do teach or suggest the subject matter as broadly recited in independent claims 1, 11, 13, 15-16, 21-22, 25 and 26. Dependent claims 2-10, 12, 14, 17-20, and 23-24 are also rejected at least by virtue of their dependency on independent claims and by other reason set forth in previous office action (Paper No. 8). Accordingly, rejections for claims 1-26 are respectfully maintained.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-5, 7-10, and 15-17, and 20-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Harrison et al. U.S. Patent No. 6,330,560 ('Harrison' hereinafter).
- 6. With respect to claim 1, Harrison teach a directory-enabled network element (see abstract; col. 1, lines 19-37; col. 3, lines 20-25, 59-61; Fig. 1).

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7. Claim 2 rejected as above rejecting claim 1, further comprising a directory enabling element installed in an executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36).

8. Claim 3 rejected as above in rejecting claim 1, further comprising:

a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36)

an application programming interface coupled to the directory enabling element and configured to receive directory services requests from application programs and provide the directory services requests to the directory enabling element (see col. 1, lines 47-65).

9. Claim 4 rejected as above in rejecting claim 1, comprising:

a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36);

an application programming interface coupled to the directory enabling element and configured to receive directory services requests from application programs and provide the directory services requests to the directory enabling element (see col. 1, lines 47-65).

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a locator service coupled to the directory enabling element and accessible using the application programming interface and configured to locate servers that provide the directory services in the network (see col. 4, lines 15-36).

10. Claim 5 rejected as above in rejecting claim 1, further comprising: a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36);

a bind service in the directory enabling element and coupled to a security protocol and configured to bind an external application program to the security protocol (see col. 2, lines 38-53; col. 4, lines 15-36).

11. Claim 7 rejected as above in rejecting claim 1, further comprising:

a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36);

a locator service coupled to the directory enabling element and configured to locate servers that provide the directory services in the network (see col. 4, lines 15-36);

an event service coupled to the directory enabling element and configured to receive registration of an event and an associated responsive action from an application program, notify the application program when the event occurs, and execute the associated responsive action in response thereto (see col. 1, lines 47-65).

12. Claim 8 rejected as above in rejecting claim 1, further comprising:

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a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36);

an application programming interface coupled to the directory enabling element and configured to receive directory services requests from application programs and provide the directory services requests to the directory enabling element (see col. 1, lines 47-65).

a locator service coupled to the directory enabling element and configured to locate servers that provide the directory services in the network (see col. 4, lines 15-36);

an event service coupled to the directory enabling element and configured to receive registration of an event and an associated responsive action from an application program, notify the application program when the event occurs, and execute the associated responsive action in response thereto (see col. 1, lines 47-63).

13. Claim 9 rejected as above in rejecting claim 1, further comprising:

a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36);

a locator service coupled to the directory enabling element and configured to locate servers that provide the directory services in the network (see col. 4, lines 15-36);

a group policy interface coupled to the directory enabling element and configured to receive and update the directory service with one or more definitions of directory

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services policies that apply to groups of network devices in the network (see col. 2, lines 23-45).

14. Claim 10 rejected as above in rejecting claim 1, further comprising:

a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36);

a bind service in the directory enabling element and coupled to an security protocol and configured to bind an external application program to the security protocol (see col. 2, lines 38-53; col. 4, lines 15-36)

an event service coupled to the directory enabling element and accessible using the application programming interface and configured to receive registration of an event and an associated responsive action from an application program, notify the application program when the event occurs, and execute the associated responsive action in response thereto (see col. 1, lines 47-65).

15. With respect to claim 15, Harrison teach a method of using a directory-enabled network element to query, access, or update directory information of a directory service of a network that includes the directory-enabled network element, wherein the directory-enabled network element comprises a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see abstract; col. 1, lines 19-25; col. 4, lines 16-36); the method comprising the steps of:

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binding the application program to the security protocol (see col. 4, lines 16-36); creating an event and an associated responsive action that are associated with the application program (see col. 1, lines 47-65);

in response to occurrence of the event, executing the responsive action, obtaining policy information from the directory service, and converting the policy information into one or more commands that are executable by the directory-enabled network element (see col. 2, lines 23-45).

16. With respect to claim 16, Harrison teach a computer-readable medium carrying one or more sequences of instructions for using a directory-enabled network element to query, access, or update directory information of a directory service of a network that includes the directory-enabled network element (see col. 1,lines 19-25; col. 4, lines 16-36), wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of:

creating and storing a directory enabling element installed in and executed by the network element, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the network element (see col. 1, lines 19-25; col. 4, lines 16-36).

binding the application program to the security protocol (see col. 4,lines 16-36); creating an even and an associated responsive action that are associated with the application program (see col. 1, lines 47-65);

in response to occurrence of the event, executing the responsive action, obtaining policy information from the directory service, and converting the policy information into

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one or more commands that are executable by the directory enabled network element (see col. 4,lines 16-46).

17. Claim 17 rejected as above in rejecting claim 16, further performing the steps of: locating a nearest directory server and binding the application program to the nearest directory server that is located (see col. 1, lines 47-63);

locating a nearest event server and binding the application program to the nearest event server that is located (see col. 4, lines 15-36).

- 18. Claim 20 rejected as above in rejecting claim 16, further wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the further steps of establishing an application programming interface coupled to the directory enabling element and configured to receive directory services requests from application programs and provide the directory services requests to the one or more processors (see col. 1, lines 47-67 to col. 2, lines 1-14).
- 19. With respect to claim 21, a Harrison teach a directory services-enabled network element (see col.1, lines 19-37; col. 3, lines 20-25, 59-61)
- 20. With respect to claim 22, a Harrison teach a system comprising a network element enabled to automatically interface with directory services (see col. 1, lines 47-65)
- 21. Claim 23 rejected as above in rejecting claim 22, wherein the network element obtains policy information form the directory services and updates the directory service (see col. 2, lines 23-45)
- 22. Claim 24 rejected as above in rejecting claim 22, wherein the network element includes a protocol agent for interfacing with directory services (see col. 3, lines 20-53).

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Claim Rejections - 35 USC § 103

- 23. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 24. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison et al. U.S. Patent No. 6,33,560 ('Harrison' hereinafter) in view of Day, II et al. U.S. Patent No. 5,968,116 ('Day, II' hereinafter).
- 25. Harrison teach claim 6 rejected as above in rejecting claim 2.

Harrison does not explicitly disclose a Unicode translation service configured to query, access, and update directory information that is encoded in a Unicode international character format.

Day, II teach a Unicode translation service configured to query, access, and update directory information that is encoded in a Unicode international character format (see col. 6, lines 13-31).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Day, II within the system of Harrison because both references are directed to a directory-enabled network element, and because the implementation of the Unicode translation service of Day, II in Bernhard would allow for the data within the directory to be effectively transported through the network without corruption, further improving the reliability of the directory information that is encoded in a Unicode international character format.

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26. Claims 11-14 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison et al. U.S. Patent No. 6,33,560 ('Harrison' hereinafter) in view of Baum et al. U.S. Patent No. 6,400,707 ('Baum' hereinafter).

27. With respect to claim 11, Harrison teach a directory-enabled packet router (see col. 1, lines 19-25, 47-65; col. 3, lines 20-25, 59-61).

Harrison does not explicitly disclose a packet-switched network.

Baum disclose a packet-switched network (see col. 3, lines 48-64)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Baum within the system of Harrison because both references are directed to a directory-enabled network and the combination of both references would enable packets sent from the directory to be divided into packets before they are sent, and once all the packets forming the message arrive at the destination to recompile into the original message, further withstanding delays in transmission and increasing the efficiency in which the packets of data are received at the destination.

28. Claim 12 rejected as above in rejecting claim 11, further comprising:

a directory enabling element installed in and executed by the router, and
configured to query, access, and update directory information that is managed by a
directory service of a network that include the router (see col. 1, lines 19-25; col. 4, lines 16-36);

a bind service in the directory enabling element and coupled to a security protocol and configured to bind an application program to the security protocol (see col. 2, lines 38-53; col. 4, lines 15-36);

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an event service coupled to the directory enabling element and accessible using the application programming interface and configured to receive registration of an event and an associated responsive action from an application program, notify the application program when the even occurs, and execute the associated responsive action in response thereto (see col. 1, lines 47-65).

29. With respect to claim 13, Harrison teach a directory-enabled network data switch (see col. 1, lines 19-37; col. 3, lines 20-25, 59-61).

Harrison does not explicitly disclose a packet-switched network.

Baum disclose a packet-switched network (see col. 3, lines 48-64)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Baum within the system of Harrison because both references are directed to a directory-enabled network and the combination of both references would enable packets sent from the directory to be divided into packets before they are sent, and once all the packets forming the message arrive at the destination to recompile into the original message, further withstanding delays in transmission and increasing the efficiency in which the packets of data are received at the destination.

30. With respect to claim 14 rejected as above in rejecting claim 13, further comprising:

a directory enabling element installed in and executed by the switch, and configured to query, access, and update directory information that is managed by a directory service of a network that includes the switch (see col. 3, lines 48-67 to col. 4, lines 1-14);

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a bind service in the directory enabling element and coupled to a security protocol and configured to bind an application program to the security protocol (see col. 3, lines 48-67 to col. 4, lines 1-63; col. 6, lines 66-67 to col. 7, lines 1-24);

an event service coupled to the directory enabling element and accessible using the application programming interface and configured to receive registration of an event and an associated responsive action from an application program, notify the application program when the event occurs, and execute the associated responsive action in response thereto (see col. 7, lines 25-64).

31. With respect to claim 25, Harrison teach a directory-enabled packet router (see col. 1, lines 19-25, 47-65; col. 3, lines 20-25, 59-61).

Harrison does not explicitly disclose a packet-switched network.

Baum disclose a packet-switched network (see col. 3, lines 48-64)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Baum within the system of Harrison because both references are directed to a directory-enabled network and the combination of both references would enable packets sent from the directory to be divided into packets before they are sent, and once all the packets forming the message arrive at the destination to recompile into the original message, further withstanding delays in transmission and increasing the efficiency in which the packets of data are received at the destination.

32. With respect to claim 26, Harrison teach a directory-enabled network data switch (see col. 1, lines 19-37; col. 3, lines 20-25, 59-61).

Harrison does not explicitly disclose a packet-switched network.

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Baum disclose a packet-switched network (see col. 3, lines 48-64)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Baum within the system of Harrison because both references are directed to a directory-enabled network and the combination of both references would enable packets sent from the directory to be divided into packets before they are sent, and once all the packets forming the message arrive at the destination to recompile into the original message, further withstanding delays in transmission and increasing the efficiency in which the packets of data are received at the destination.

- 33. Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison et al. U.S. Patent No. 6,33,560 ('Harrison' hereinafter) in view of Nessett et al. U.S. Patent No. 5,968,176 ('Nessett' hereinafter).
- 34. Harrison teach claim 18 rejected as above in rejecting claim 16.

Harrison does not explicitly disclose a virtual private network is created between the router and another network device.

Nessett teach translating the policy information into one or more values that are ready to apply to a router, whereby a virtual private network is created between the router and another network device (see col. 14, lines 31-47; col. 15, lines 6-67).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Nessett within the system of Bernhard to arrive at the invention as claimed because both references are directed to a computer-readable medium, and because the implementation of virtual private network would

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increase the level of protection of the packets that are moved between the source and destination, further preserving the integrity of the data within the directory-enabled network element.

35. Harrison teach claim 19 rejected as above in rejecting claim 16.

Harrison does not explicitly disclose a set of internal data structures of a router and a dynamic IPSEC configuration.

Nessett teach translating the policy information into one or more values that are ready to apply to a set of internal data structures of a router, by calling one or more internal NOS API functions, whereby a dynamic IPSEC configuration is created that connects the router and at least one other network device (see col. 10, lines 24-59; col. 13, lines 51-67 to col. 14, lines 19-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Nessett within the system of Bernhard to arrive at the invention as claimed because both references are directed to a computer-readable medium, and because the implementation of IPSEC configuration would increase the level of protection of the communication that occurs between the router and one other network device, effectively ensuring the secure packet exchanges at the IP layer, and further improving the security of the communication interface of the combined system.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Zia whose telephone number is 703-305-3881. The examiner can normally be reached on Monday - Friday 9:00 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SZ

June 3, 2004

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